

GILA RIVER BASIN

09483010 HIGH SCHOOL WASH AT TUCSON, AZ

LOCATION.--Lat 32°13'28", long 110°56'48", in SE¹/₄SE¹/₄ sec.7, T.14 S., R.14 E., Pima County, Hydrologic Unit 15050301, on right bank 200 ft upstream from Cherry Avenue in Tucson.

DRAINAGE AREA.--0.95 mi².

PERIOD OF RECORD.--October 1973 to September 1983 (publication by U.S. Geological Survey discontinued; records available from cooperator listed below).

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 2,415 ft, from topographic map.

REMARKS.--Entire drainage basin is an urban residential area.

COOPERATION.--Records furnished by Water Resources Research Center, University of Arizona.

AVERAGE DISCHARGE.--10 years, 0.109 ft³/s, 79.0 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 464 ft³/s July 25, 1982, gage height, 5.00 ft; no flow most of each year.

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1968	08-10-68	486	C	1976	09-04-76	156	C
1969	08-01-69	341	C	1977	07-22-77	129	C
1970	08-11-70	409	C	1978	10-07-77	178	C
1971	08-08-71	664	C	1979	08-12-79	346	C
1972	08-12-72	800	C	1980	08-13-80	357	C
1973	07-07-73	204	C	1981	05-01-81	85	C
1974	08-02-74	126	C	1982	07-25-82	464	C
1975	07-16-75	195	C	1983	08-16-83	163	C

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
1.11	1.6	2,460	0.0	1.0	11.0	1.7	4.2

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MEAN MONTHLY AND ANNUAL DISCHARGES 1974-83							MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW BASED ON PERIOD OF RECORD 1975-83						
MONTH	MAXIMUM (FT3/S)	MINIMUM (FT3/S)	MEAN (FT3/S)	STAN- DARD DEVI- ATION (FT3/S)	COEFFI- CIENT OF VARI- ATION	PERCENT OF ANNUAL RUNOFF	PERIOD (CON- SECU- TIVE DAYS)	DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND NON-EXCEEDANCE PROBABILITY, IN PERCENT					
								2 50%	5 20%	10 10%	20# 5%	50# 2%	100# 1%
OCTOBER	0.38	0.00	0.10	0.16	1.5	8.0							
NOVEMBER	0.20	0.00	0.05	0.07	1.4	4.0							
DECEMBER	0.35	0.00	0.07	0.11	1.5	5.7	1						
JANUARY	0.28	0.00	0.12	0.11	0.92	9.5	3						
FEBRUARY	0.31	0.00	0.07	0.12	1.6	5.6	7						
MARCH	0.26	0.00	0.09	0.07	0.78	7.1	14						
APRIL	0.10	0.00	0.02	0.03	2.0	1.2	30						
MAY	0.10	0.00	0.02	0.03	1.9	1.4	60						
JUNE	0.09	0.00	0.02	0.03	1.5	1.5	90						
JULY	0.57	0.04	0.23	0.19	0.81	17.8	120	0.02	0.01	0.00	0.00	0.00	0.00
AUGUST	0.82	0.01	0.27	0.30	1.1	20.9	183	0.05	0.02	0.02	0.01	0.01	0.00
SEPTEMBER	0.78	0.00	0.22	0.24	1.1	17.4							
ANNUAL	0.20	0.05	0.11	0.05	0.43	100							

MAGNITUDE AND PROBABILITY OF INSTANTANEOUS PEAK FLOW BASED ON PERIOD OF RECORD 1968-83							MAGNITUDE AND PROBABILITY OF ANNUAL HIGH FLOW BASED ON PERIOD OF RECORD 1974-83						
DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT							DISCHARGE, IN FT3/S, FOR INDICATED RECURRENCE INTERVAL, IN YEARS, AND EXCEEDANCE PROBABILITY, IN PERCENT						
2 50%	5 20%	10 10%	25 4%	50 2%	100 1%		PERIOD (CON- SECU- TIVE DAYS)	2 50%	5 20%	10 10%	25# 4%	50# 2%	100# 1%
							1						
							3	6.0	10	14	20	25	31
							7	2.6	4.6	6.3	9.0	11	14
							15	1.3	2.2	2.9	4.0	4.9	5.8
							30	0.72	1.2	1.5	2.0	2.3	2.8
							60	0.43	0.72	0.98	1.4	1.8	2.3
							90	0.30	0.52	0.72	1.0	1.4	1.7
								0.25	0.41	0.53	0.71	0.86	1.0
261	454	606	827	1,010	1,210								
WEIGHTED SKEW (LOGS)=	0.22												
MEAN (LOGS)=	2.42												
STANDARD DEV. (LOGS)=	0.28												

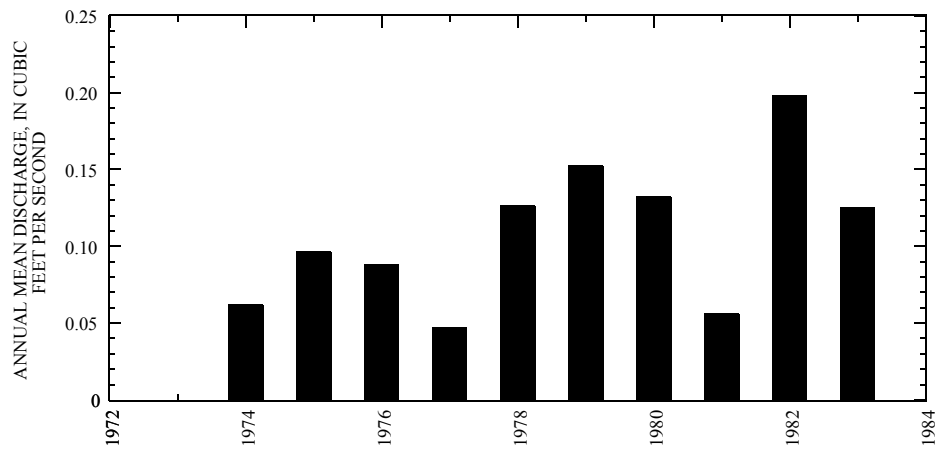
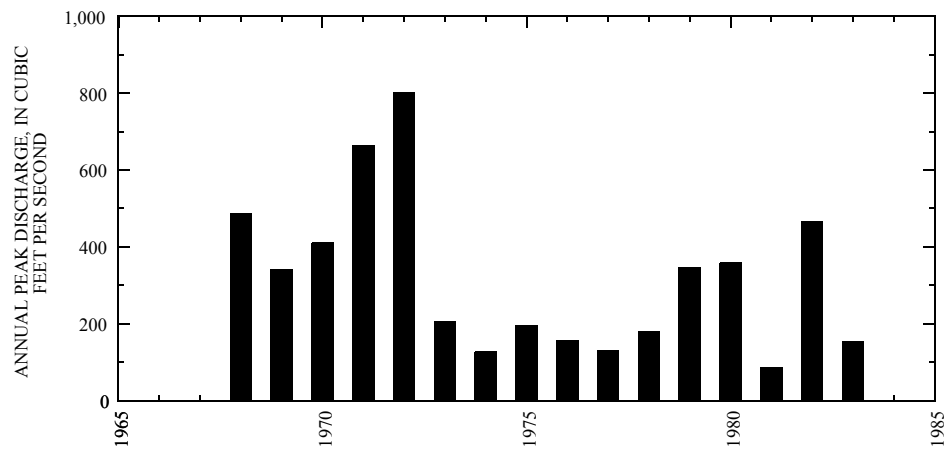
DURATION TABLE OF DAILY MEAN FLOW FOR PERIOD OF RECORD 1974-83

DISCHARGE, IN FT3/S, WHICH WAS EQUALED OR EXCEEDED FOR INDICATED PERCENT OF TIME																
1%	5%	10%	15%	20%	30%	40%	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.9%
3.0	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Reliability of values in column is uncertain, and potential errors are large.

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